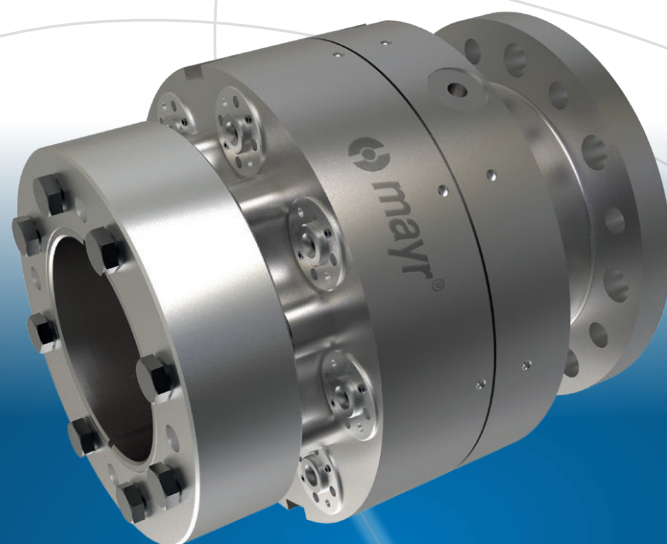




*your reliable partner*



**EAS<sup>®</sup>-HSE**

## EAS<sup>®</sup>-HSE

### The perfect safety clutches for all fast-running drives

#### Characteristics

- ✓ Positive locking, disengaging overload clutch
- ✓ Synchronous re-engagement
- ✓ Components manufactured with high precision
- ✓ Flexible mounting directly on the measurement flange
- ✓ High torsional rigidity
- ✓ Compact, with a high performance density
- ✓ Speeds of up to 25,000 rpm
- ✓ Torques from 45 Nm to 11,200 Nm in the standard design

#### High balance quality

Absolute running smoothness is crucial in high-speed applications. For this purpose, torque limiters must ensure high balance quality of each individual component. The individual components must maintain their position within the clutch precisely in every situation so that no imbalance occurs – in our clutches we ensure this, among other things, by means of ground drive elements. This way we are able to reach a balance quality of G 2.5 at 3000 rpm.

#### High-precision couplings for accurate measuring results

Our high-speed torque limiting clutches are tailored specifically to the needs of test stand technology. They protect expensive test pieces and sensitive measuring units from damage caused by overloads – reliably and accurately up to the highest speed ranges.

High-precision shaft couplings compensate for any occurring misalignments and protect the drive line from any unwanted loads. They stand for reliable and accurate measurement results, and reduced downtimes and costs.

#### Compact, with a high performance density

Technical characteristic features of the test stand clutch EAS<sup>®</sup>-HSE:

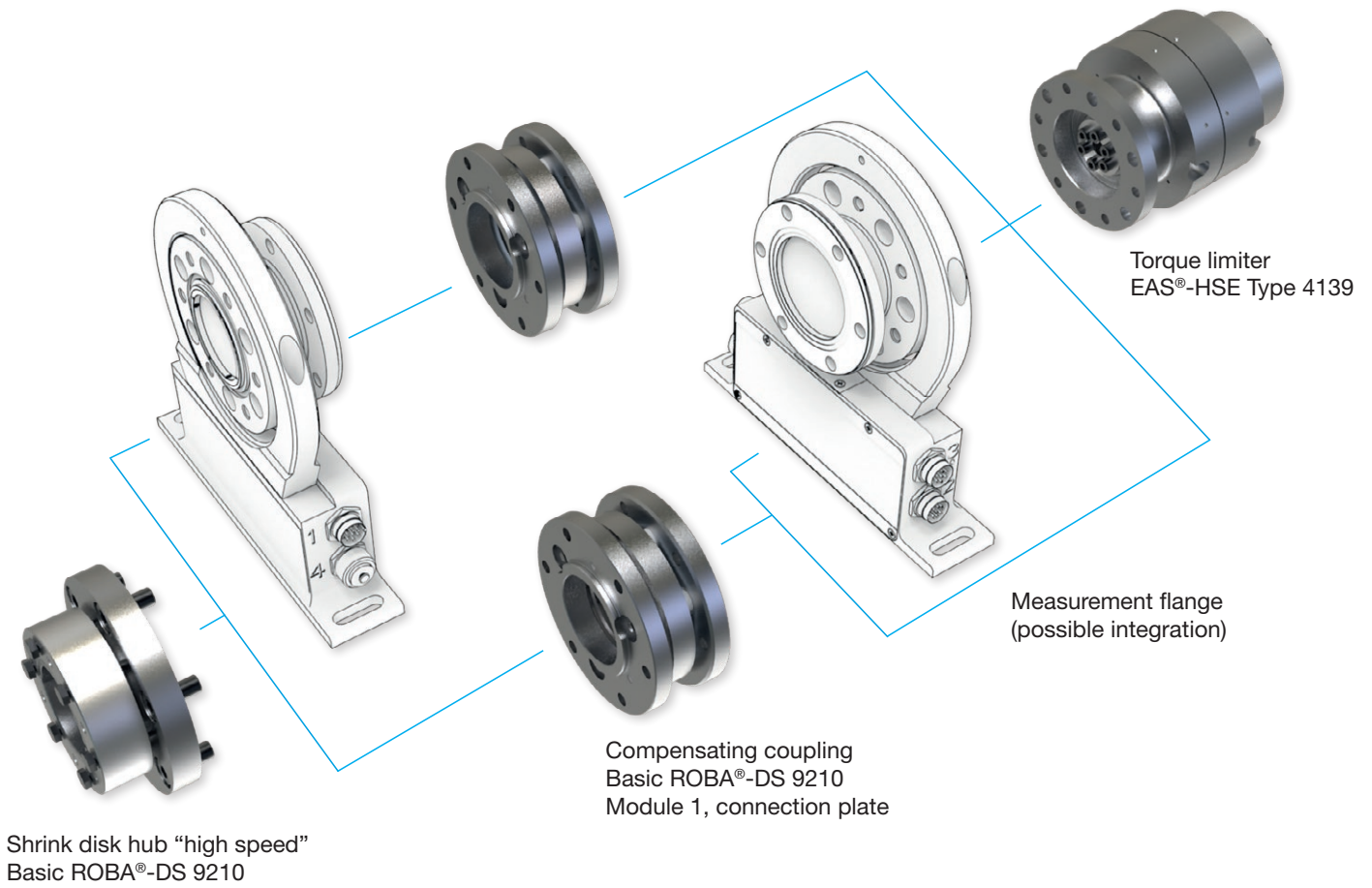
- ✓ Extremely compact constructional design
- ✓ High performance density
- ✓ The effect: Low rotating masses have a positive effect on the running smoothness and machine dynamics.

#### Ideal for use in test stands

The size graduation of the EAS<sup>®</sup>-HSE is specially aligned to the common measurement flange sizes.

Contact us if the standard-design EAS<sup>®</sup>-HSE clutch does not provide the optimum solution for your test stand – customized solutions are our specialty. Profit from our more than 50 years of experience in the development, manufacture and implementation of test stand clutches.

**Preferred configuration for measurement flange connection  
EAS<sup>®</sup>-HSE with ROBA-DS Type 9210.-**



**Video:  
Function in case of overload**



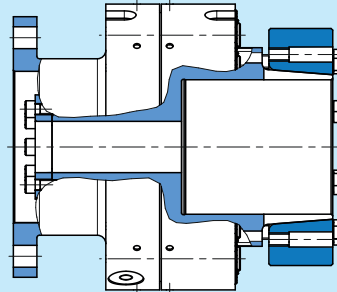
**Summary of Constructional Designs EAS<sup>®</sup>-HSE**

**Sizes 2 to 9**

**EAS<sup>®</sup>-HSE  
Module**

Maximum speed for your application

**Type 4130.\_ 0400**  
Module with inner centering

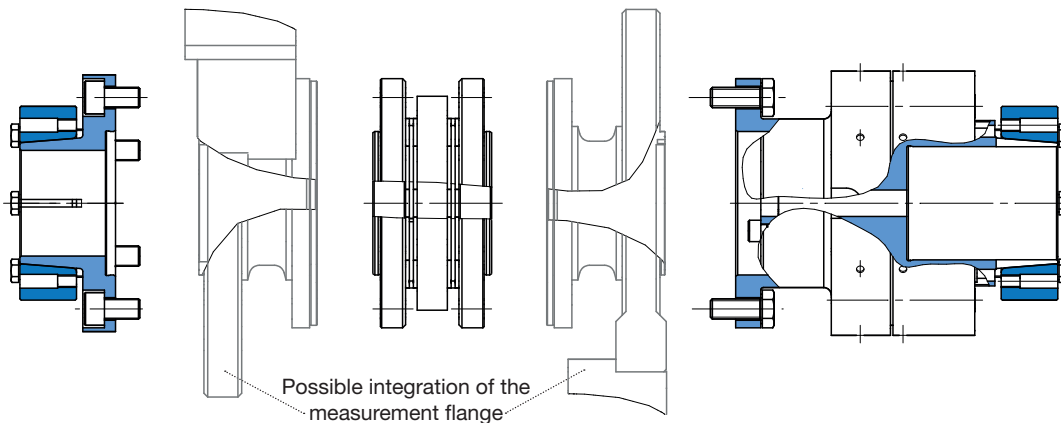


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**EAS<sup>®</sup>-HSE for measurement flange connection  
with high-speed-design ROBA<sup>®</sup>-DS Type 9210.-**

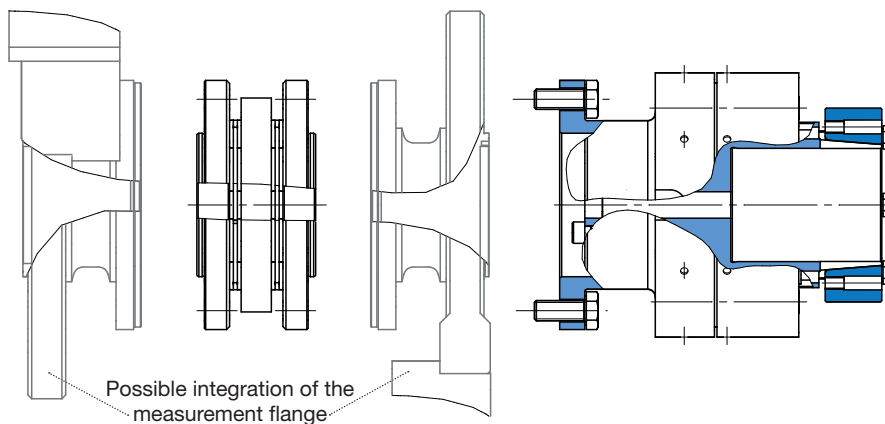
Maximum speed for your application

**Type 4139.\_ 0411**  
with shrink disk hub (Type 9210.-)



Page 8

**Type 4139.\_ 041M**  
without shrink disk hub

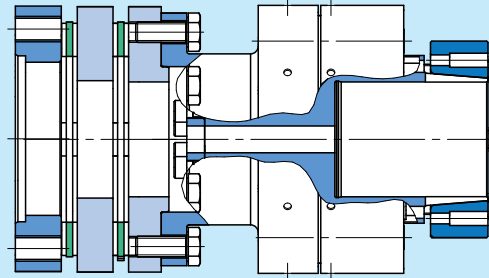


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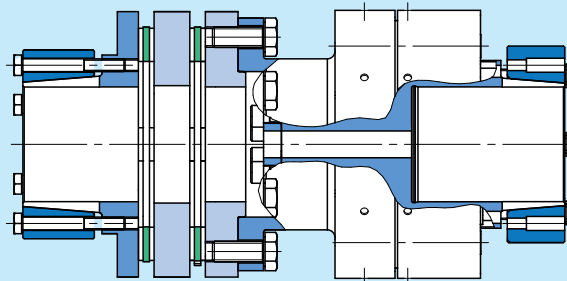
**EAS<sup>®</sup>-HSE with torsionally rigid all-steel coupling  
from standard series ROBA<sup>®</sup>-DS Type 95-.-**

The flexible integration into your drive line

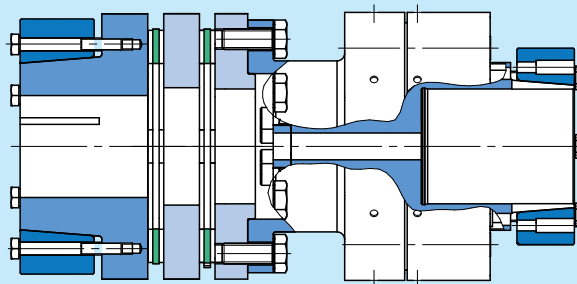
**Type 4136. \_ 0416**  
ROBA<sup>®</sup>-DS-side with flange



**Type 4136. \_ 0412**  
ROBA<sup>®</sup>-DS-side with shrink disk hub (Type 95-.-)

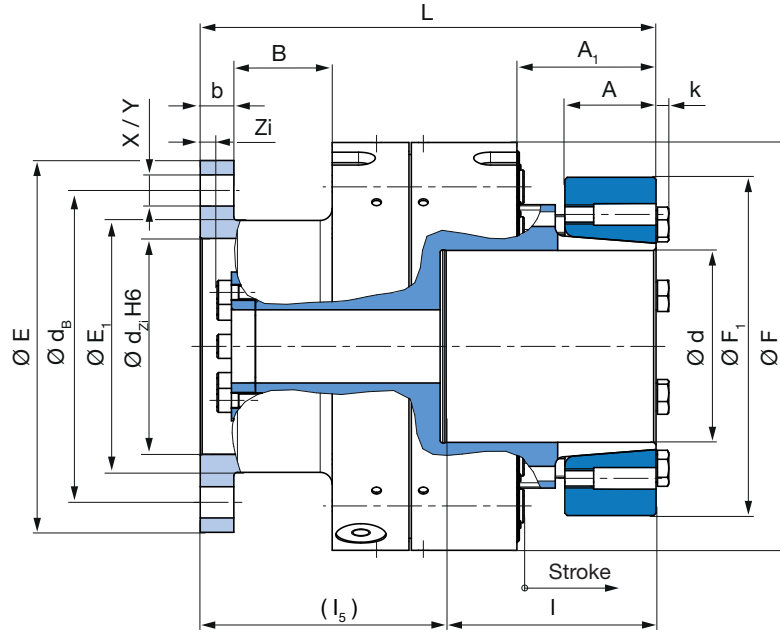


**Type 4136. \_ 0419**  
ROBA<sup>®</sup>-DS-side with shrink disk hub, large



## EAS<sup>®</sup>-HSE Module

Type 4130\_0400  
Module with inner centering



### Order Number

— / 4 1 3 0 . — 0 4 0 0 / — / —



Sizes  
2  
to  
9

Torque range <sup>1)</sup>  
minimum  
medium  
high  
maximum

4  
5  
6  
7

Hub 1  
bore  
 $\text{Ø } d^{H6}$

Torque  
adjustment  
value

Technical Data				Size							
				2	3	4	5	6	7	8	9
Limit torques for overload <sup>2)</sup>	Type 4130.40400	M <sub>G</sub>	[Nm]	45 – 90	93 – 186	125 – 250	250 – 500	325 – 650	500 – 1000	1150 – 2300	1400 – 2800
	Type 4130.50400	M <sub>G</sub>	[Nm]	68 – 136	140 – 280	250 – 500	375 – 750	650 – 1300	1000 – 2000	1750 – 3500	2800 – 5600
	Type 4130.60400	M <sub>G</sub>	[Nm]	90 – 180	185 – 370	375 – 750	500 – 1000	1000 – 2000	1500 – 3000	2300 – 4600	4200 – 8400
	Type 4130.70400	M <sub>G</sub>	[Nm]	135 – 270	280 – 560	500 – 1000	750 – 1500	1300 – 2600	2000 – 4000	3500 – 7000	5600 – 11200
EAS®-element	Size			02	02	02	01	01	0	0	0
	Type 413_404_			2	2	2	2	2	2	2	2
	Type 413_504_			3	3	4	3	4	2	3	4
	Type 413_604_			4	4	6	4	6	3	4	6
	Type 413_704_			6	6	8	6	8	4	6	8
Bolt stroke on overload			[mm]	2.5	2.5	2.5	4	4	6	6	6
Max. speed			n <sub>max</sub> [rpm]	25000	22000	16000	14000	12000	11000	10000	8000

Screw-on bores				Size							
				2	3	4	5	6	7	8	9
Screw-on bores in pressure flange	Pitch			6 × 60°	6 × 60°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°
	Dimension	X	[mm]	8.2	8.2	10.4	10.4	12.4	12.4	14.4	16.4
		Y	[mm]	M8	M8	M10	M10	M12	M12	M14	M16

Mass moments of inertia and weights <sup>4)</sup>				Size							
				2	3	4	5	6	7	8	9
EAS®-hub-side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	2.05	3.34	10.44	14.93	44.45	66.76	144.52	335.58
EAS®-pressure flange side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.65	2.02	4.99	6.41	20.91	38.67	65.1	140.52
Weight	Type 4130.50400	m	[kg]	3.55	4.37	7.53	10.63	18.35	24.73	38.63	61.80

Dimensions [mm]	Size							
	2	3	4	5	6	7	8	9
A	25	22.5	30	30	38	38	51	63
A <sub>1</sub>	35	33	42	49.5	58	58	74	89
b	10	10	11	10	14	14	15	20
B	28	28	34	32.5	41	41	50	60
d <sub>B</sub>	84	84	101.5	101.5	130	130	155.5	196
d <sub>Zi</sub> H6	57	57	75	75	90	90	110	140
E	99	99	123	123	155	155	188	234
E <sub>1</sub>	67	67	80	80	105	105	127	163
F	90	100	125	135	170	185	205	250
F <sub>1</sub>	64	77	115	110	141	155	198	234
k	3.5	3.5	5.3	5.3	5.3	6.4	7.5	7.5
l	65	60	70	85	90	110	120	130
l <sub>s</sub>	65	68	75	80	100	110	130	150
L	130	128	145	165	190	220	250	280
Zi	5	4	4	4	5	5	4	5

Bores [mm]			Size							
			2	3	4	5	6	7	8	9
EAS®-side	d H6 <sup>3)</sup>	d <sub>min</sub>	20	25	35	35	42	42	70	70
		d <sub>max</sub>	36	45	65	60	80	80	95	120

We reserve the right to make dimensional and constructional alterations.

- 1) See Technical Data, limit torque for overload M<sub>G</sub>, other torques on request.
- 2) Please observe the shaft load in the max. torque range.
- 3) Frictionally-locking transmittable torque, see page 14.
- 4) Mass moments of inertia and weights are valid for maximum bore.

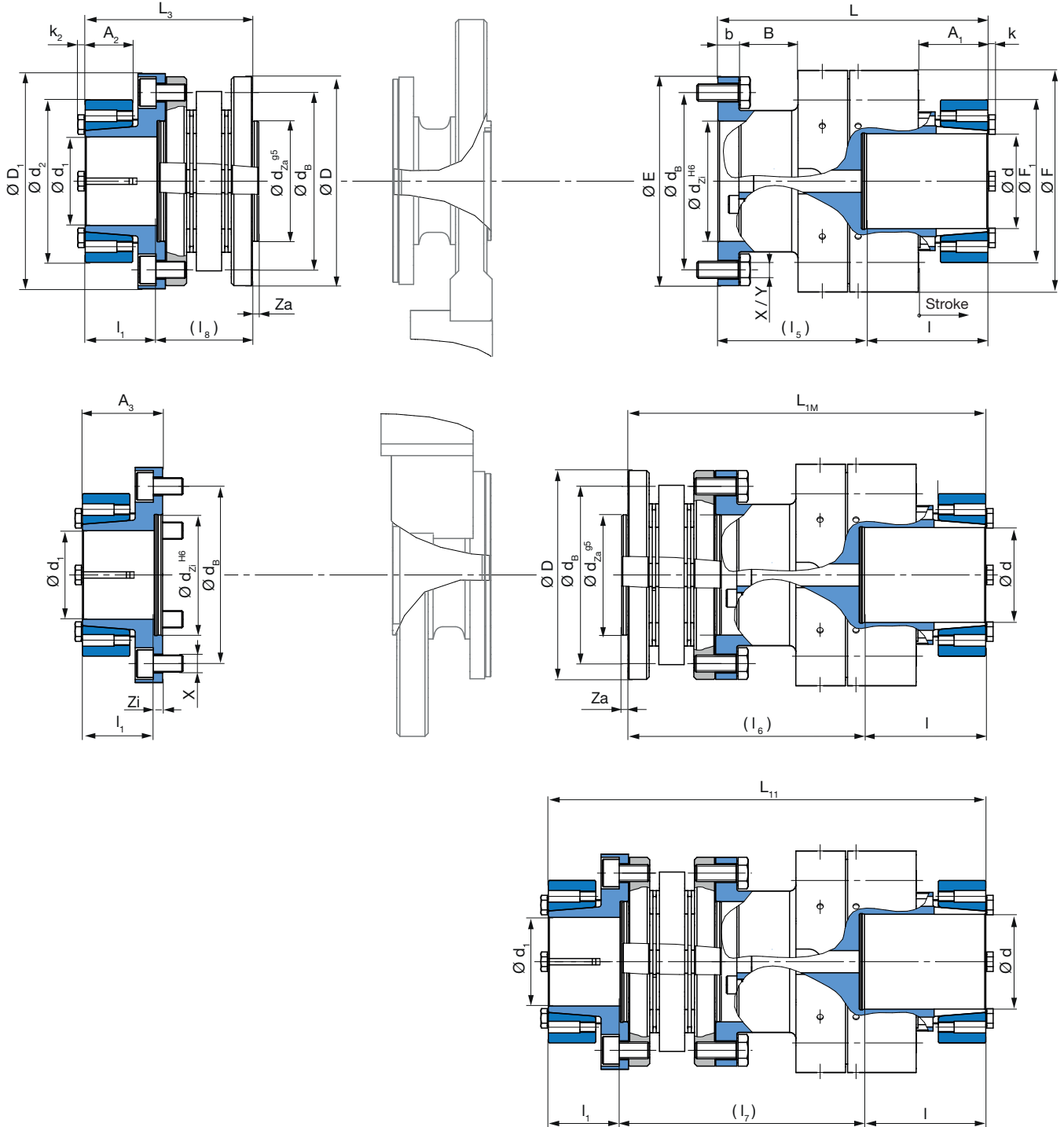
For further Technical Data, please see the Installation and Operational Instructions B.413.1 and B.413.2. They are available for download on our website [www.mayr.com](http://www.mayr.com).



# EAS<sup>®</sup>-HSE for measurement flange connection with high-speed-design Type 9210.-

For maximum speed for your application

Types 4139. \_ 0411



## Order Number

_ / 4 1 3 9 . _ 0 4 1 1 / _ / _ / _									
▲									
<b>Sizes</b>	<b>Torque range <sup>1)</sup></b>								
2	minimum	4						Hub 1 bore	Hub 2 bore
to	medium	5						Ø d <sup>H6</sup>	Ø d <sup>H5</sup>
9	high	6							
	maximum	7							Torque adjustment value



Technical Data				Size								
				2	3	4	5	6	7	8	9	
Limit torques for overload <sup>2)</sup>	Type 4139.40411	M <sub>G</sub>	[Nm]	45 – 90	93 – 186	125 – 250	250 – 500	325 – 650	500 – 1000	1150 – 2300	1400 – 2800	
	Type 4139.50411	M <sub>G</sub>	[Nm]	68 – 136	140 – 280	250 – 500	375 – 750	650 – 1300	1000 – 2000	1750 – 3500	2800 – 5600	
	Type 4139.60411	M <sub>G</sub>	[Nm]	90 – 180	185 – 370	375 – 750	500 – 1000	1000 – 2000	1500 – 3000	2300 – 4600	4200 – 8400	
	Type 4139.70411	M <sub>G</sub>	[Nm]	135 – 270	280 – 560	500 – 1000	750 – 1500	1300 – 2600	2000 – 4000	3500 – 7000	5600 – 11200	
Bolt stroke on overload			[mm]	2.5	2.5	2.5	4	4	6	6	6	
EAS®-element	Size			02	02	02	01	01	0	0	0	
	Number of pieces			for pieces, see Technical Data on page 7.								
ROBA®-DS (Type 9210.-) Size				16F	16	64	64	300	300	500	850	
Nominal torque, torsionally rigid coupling			T <sub>KN</sub>	[Nm]	190	300	1100	1100	3500	3500	5800	10000
Permitted misalignments	axial	ΔK <sub>a</sub>	[mm]	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	
	radial	ΔK <sub>r</sub>	[mm]	0.06	0.06	0.08	0.08	0.08	0.08	0.11	0.13	
	angular	ΔK <sub>w</sub>	[°]	0.3	0.2	0.2	0.2	0.16	0.16	0.16	0.16	
Max. speed			n <sub>max</sub>	[rpm]	25000	22000	16000	14000	12000	11000	10000	8000

Screw-on bores				Size							
				2	3	4	5	6	7	8	9
Screw-on bores in pressure flange	Pitch			6 × 60°	6 × 60°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°
	Dimension	X	[mm]	8.2	8.2	10.4	10.4	12.4	12.4	14.4	16.4
		Y	[mm]	M8	M8	M10	M10	M12	M12	M14	M16

Mass moments of inertia and weights <sup>4)</sup>				Size							
				2	3	4	5	6	7	8	9
EAS®-hub-side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	2.05	3.34	10.44	14.93	44.45	66.76	144.52	335.58
EAS®-pressure flange side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.65	2.02	4.99	6.41	20.91	38.67	65.1	140.52
ROBA®-DS-side	Type 4139.50411	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	3.39	3.38	19.27	19.27	84.93	84.93	191.42	478.42
Weight	Type 4139.50411	m	[kg]	6.28	7.04	15.13	18.03	37.89	45.66	69.48	115.19

Dimensions [mm]	Size							
	2	3	4	5	6	7	8	9
A <sub>1</sub>	35	33	42	49.5	58	58	74	89
A <sub>2</sub>	22.5	22.5	36	36	43	43	51	63
A <sub>3</sub>	38	38	58	58	70	70	80	98
b	10	10	11	10	14	14	15	20
B	28	28	34	32.5	41	41	50	60
d <sub>2</sub>	77	77	120	120	164	164	198	234
d <sub>B</sub>	84	84	101.5	101.5	130	130	155.5	196
d <sub>Za</sub> <sup>95)</sup>	57	57	75	75	90	90	110	140
d <sub>Zi</sub> <sup>H6)</sup>	57	57	75	75	90	90	110	140
D	99	99	132	132	178	178	210	252
D <sub>1</sub>	102	102	132	132	167	167	193	240
E	99	99	123	123	155	155	188	234
F	90	100	125	135	170	185	205	250
F <sub>1</sub>	64	77	115	110	141	155	198	234
k	3.5	3.5	5.3	5.3	5.3	6.4	7.5	7.5
k <sub>2</sub>	3.5	3.5	5.3	5.3	5.3	5.3	6.4	7.5
l	65	60	70	85	90	110	120	130
l <sub>1</sub>	34	34	54	54	65	65	76	94
l <sub>5</sub>	65	68	75	80	100	110	130	150
l <sub>6</sub>	111.2	109.2	138.4	143.4	188	198	230	266
l <sub>7</sub>	115.2	113.2	142.4	147.4	193	203	234	270
l <sub>8</sub>	50.2	45.2	67.4	67.4	93	93	104	120
L	130	128	145	165	190	220	250	280
L <sub>1M</sub>	176.2	169.2	208.4	228.4	278	308	350	396
L <sub>11</sub>	214.2	207.2	266.4	286.4	348	378	430	494
L <sub>3</sub>	84.2	79.2	121.4	121.4	158	158	180	214
Za	3	3	3	3	2.5	2.5	2.5	3
Zi	4	4	4	4	5	5	4	4

Bores [mm]			Size							
			2	3	4	5	6	7	8	9
EAS®-side	d <sup>H6 3)</sup>	d <sub>min</sub>	20	25	35	35	42	42	70	70
		d <sub>max</sub>	36	45	65	60	80	80	95	120
ROBA®-DS-side	d <sub>1</sub> <sup>H5 3)</sup>	d <sub>1 min</sub>	25	25	45	45	50	50	60	70
		d <sub>1 max</sub>	45	45	70	70	85	85	100	120

We reserve the right to make dimensional and constructional alterations.

- 1) See Technical Data, limit torque for overload M<sub>G</sub>, other torques on request.
- 2) Please observe the shaft load in the max. torque range.
- 3) Frictionally-locking transmittable torque, see page 14.
- 4) Mass moments of inertia and weights are valid for maximum bore.

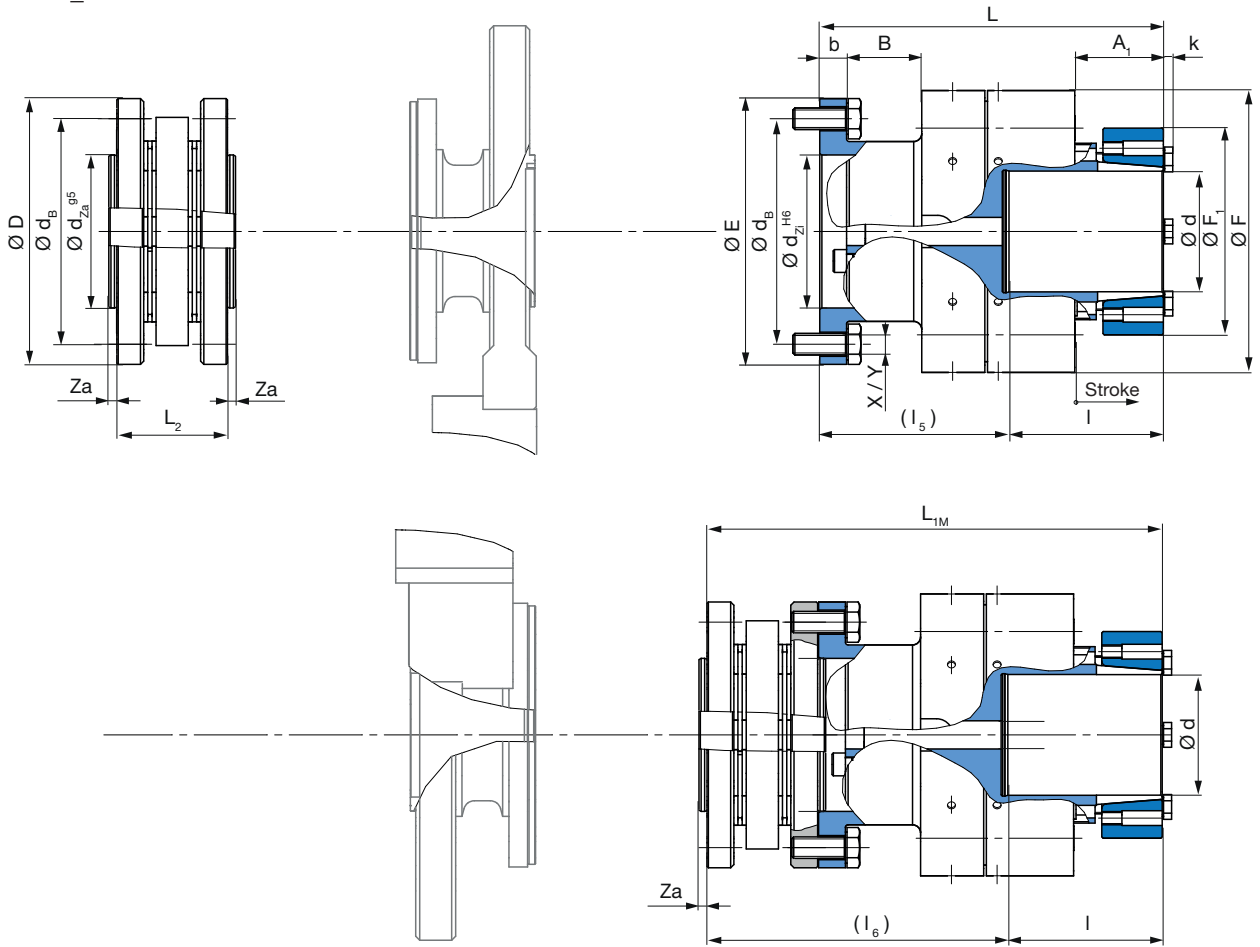
For further Technical Data, please see the Installation and Operational Instructions B.413.1 and B.413.2. They are available for download on our website [www.mayr.com](http://www.mayr.com).



# EAS<sup>®</sup>-HSE for measurement flange connection with high-speed-design Type 9210.-

For maximum speed for your application

Types 4139. \_ 041M



## Order Number

_ / 4 1 3 9 . _ 0 4 1 M / _ / _					
▲		▲		▲	▲
<b>Sizes</b>	<b>Torque range <sup>1)</sup></b>			Hub 1 bore	Torque adjustment value
2	minimum	4		Ø d <sup>H6</sup>	
to	medium	5			
9	high	6			
	maximum	7			

Technical Data				Size								
				2	3	4	5	6	7	8	9	
Limit torques for overload <sup>2)</sup>	Type 4139.4041M	M <sub>G</sub>	[Nm]	45 – 90	93 – 186	125 – 250	250 – 500	325 – 650	500 – 1000	1150 – 2300	1400 – 2800	
	Type 4139.5041M	M <sub>G</sub>	[Nm]	68 – 136	140 – 280	250 – 500	375 – 750	650 – 1300	1000 – 2000	1750 – 3500	2800 – 5600	
	Type 4139.6041M	M <sub>G</sub>	[Nm]	90 – 180	185 – 370	375 – 750	500 – 1000	1000 – 2000	1500 – 3000	2300 – 4600	4200 – 8400	
	Type 4139.7041M	M <sub>G</sub>	[Nm]	135 – 270	280 – 560	500 – 1000	750 – 1500	1300 – 2600	2000 – 4000	3500 – 7000	5600 – 11200	
Bolt stroke on overload			[mm]	2.5	2.5	2.5	4	4	6	6	6	
EAS®-element	Size			02	02	02	01	01	0	0	0	
	Number of pieces			for pieces, see Technical Data on page 7.								
ROBA®-DS (Type 9210.-) Size				16F	16	64	64	300	300	500	850	
Nominal torque, torsionally rigid coupling			T <sub>KN</sub>	[Nm]	190	300	1100	1100	3500	3500	5800	10000
Permitted misalignments	axial	ΔK <sub>a</sub>	[mm]	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	
	radial	ΔK <sub>r</sub>	[mm]	0.06	0.06	0.08	0.08	0.08	0.08	0.11	0.13	
	angular	ΔK <sub>w</sub>	[°]	0.3	0.2	0.2	0.2	0.16	0.16	0.16	0.16	
Max. speed			n <sub>max</sub>	[rpm]	25000	22000	16000	14000	12000	11000	10000	8000

Screw-on bores				Size								
				2	3	4	5	6	7	8	9	
Screw-on bores in pressure flange	Pitch			6 × 60°	6 × 60°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	8 × 45°	
	Dimension	X	[mm]	8.2	8.2	10.4	10.4	12.4	12.4	14.4	16.4	
		Y	[mm]	M8	M8	M10	M10	M12	M12	M14	M16	

Mass moments of inertia and weights <sup>4)</sup>				Size								
				2	3	4	5	6	7	8	9	
EAS®-hub-side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	2.05	3.34	10.44	14.93	44.45	66.76	144.52	335.58	
EAS®-pressure flange side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.65	2.02	4.99	6.41	20.91	38.67	65.1	140.52	
ROBA®-DS-side	Type 4139.5041M	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.86	1.85	10.78	10.78	50.46	50.46	110.42	274.68	
Weight	Type 4139.5041M	m	[kg]	5.12	5.88	11.79	14.69	29.86	37.63	56.12	91.83	

Dimensions [mm]	Size								
	2	3	4	5	6	7	8	9	
A <sub>1</sub>	35	33	42	49.5	58	58	74	89	
b	10	10	11	10	14	14	15	20	
B	28	28	34	32.5	41	41	50	60	
d <sub>B</sub>	84	84	101.5	101.5	130	130	155.5	196	
d <sub>z</sub> <sup>95</sup>	57	57	75	75	90	90	110	140	
d <sub>z</sub> <sup>H6</sup>	57	57	75	75	90	90	110	140	
D	99	99	132	132	178	178	210	252	
E	99	99	123	123	155	155	188	234	
F	90	100	125	135	170	185	205	250	
F <sub>1</sub>	64	77	115	110	141	155	198	234	
k	3.5	3.5	5.3	5.3	5.3	6.4	7.5	7.5	
l	65	60	70	85	90	110	120	130	
l <sub>5</sub>	65	68	75	80	100	110	130	150	
l <sub>6</sub>	111.2	109.2	138.4	143.4	188	198	230	266	
L	130	128	145	165	190	220	250	280	
L <sub>1M</sub>	176.2	169.2	208.4	228.4	278	308	350	396	
L <sub>2</sub>	46.2	41.2	63.4	63.4	88	88	100	116	
Za	3	3	3	3	2.5	2.5	2.5	3	

Bores [mm]			Size								
			2	3	4	5	6	7	8	9	
EAS®-side	d <sup>H6 3)</sup>	d <sub>min</sub>	20	25	35	35	42	42	70	70	
		d <sub>max</sub>	36	45	65	60	80	80	95	120	

We reserve the right to make dimensional and constructional alterations.

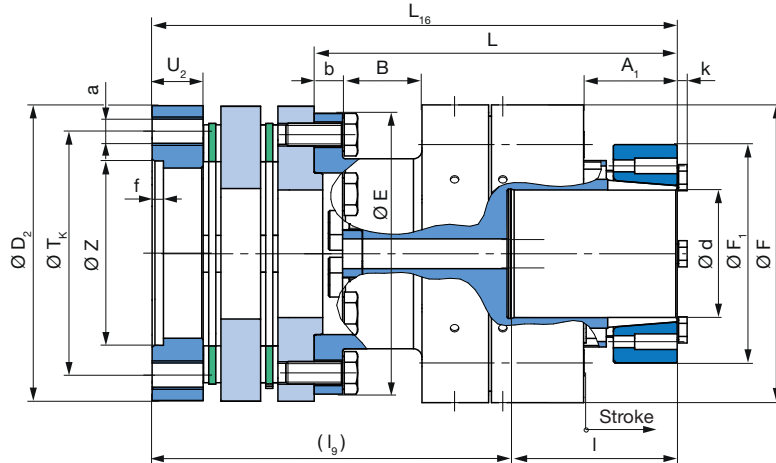
- 1) See Technical Data, limit torque for overload M<sub>G</sub>, other torques on request.
- 2) Please observe the shaft load in the max. torque range.
- 3) Frictionally-locking transmittable torque, see page 14.
- 4) Mass moments of inertia and weights are valid for maximum bore.

For further Technical Data, please see the Installation and Operational Instructions B.413.1 and B.413.2. They are available for download on our website [www.mayr.com](http://www.mayr.com).

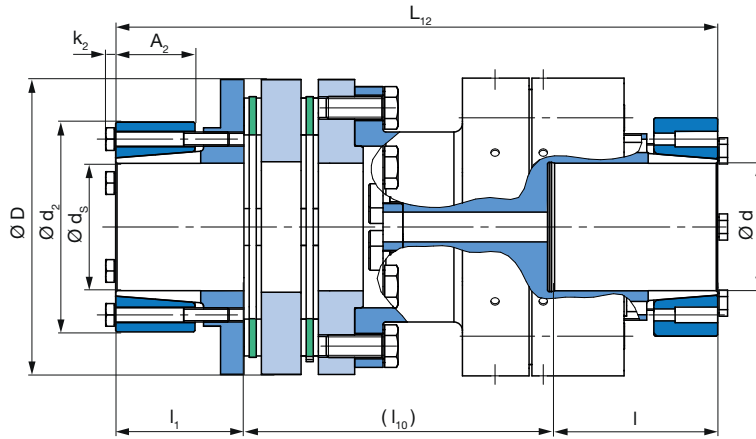


**EAS<sup>®</sup>-HSE with torsionally rigid all-steel coupling  
from standard series ROBA<sup>®</sup>-DS**

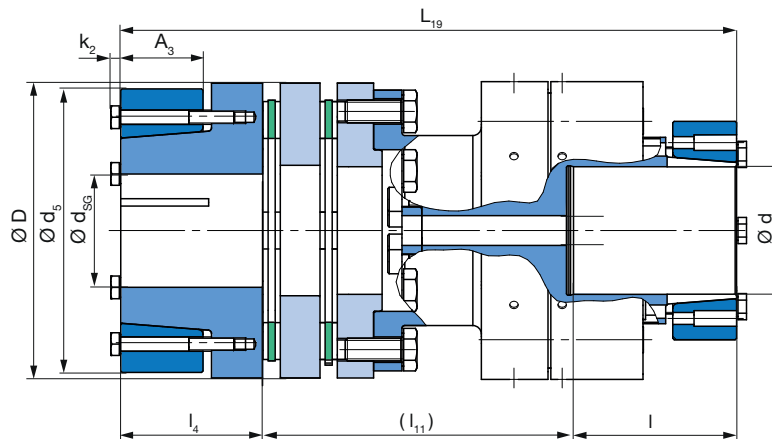
Type 4136. \_ 0416  
ROBA<sup>®</sup>-DS-side  
with flange



Type 4136. \_ 0412  
ROBA<sup>®</sup>-DS-side  
with shrink disk hub



Type 4136. \_ 0419  
ROBA<sup>®</sup>-DS-side  
with shrink disk hub,  
large



**Order Number**

_ / 4 1 3 6 . _ 0 4 1 _ / _ / _ / _							
▲	▲	▲	▲	▲	▲		
<b>Sizes</b> 2 to 9	<b>Torque range</b> <sup>1)</sup> minimum medium high maximum	4 5 6 7	Shrink disk hub Flange Shrink disk hub, large <sup>2)</sup>	2 6 9	Hub 1 bore Ø d <sup>H6</sup>	Hub 2 bore Ø d <sub>s</sub> <sup>H7</sup> Ø d <sub>SG</sub> <sup>H7</sup>	Torque adjustment value

Example: Order number 5 / 4136.50419 / 50 / 50 / 600

Technical Data				Size								
				2	3	4	5	6	7	8	9	
Limit torques for overload <sup>3)</sup>	Type 4136.4041_	M <sub>G</sub>	[Nm]	45 – 90	93 – 186	125 – 250	250 – 500	325 – 650	500 – 1000	1150 – 2300	1400 – 2800	
	Type 4136.5041_	M <sub>G</sub>	[Nm]	68 – 136	140 – 280	250 – 500	375 – 750	650 – 1300	1000 – 2000	1750 – 3500	2800 – 5600	
	Type 4136.6041_	M <sub>G</sub>	[Nm]	90 – 180	185 – 370	375 – 750	500 – 1000	1000 – 2000	1500 – 3000	2300 – 4600	4200 – 8400	
	Type 4136.7041_	M <sub>G</sub>	[Nm]	135 – 270	280 – 560	500 – 1000	750 – 1500	1300 – 2600	2000 – 4000	3500 – 7000	5600 – 11200	
Bolt stroke on overload			[mm]	2.5	2.5	2.5	4	4	6	6	6	
EAS®-element	Size			02	02	02	01	01	0	0	0	
	Number of pieces			for pieces, see Technical Data on page 7.								
ROBA®-DS (Type 95-.-)	Size			16	40	64	64	300	300	500	850	
Nominal torque, torsionally rigid coupling			T <sub>KN</sub>	[Nm]	300	650	1100	1100	3500	3500	5800	9500
Permitted misalignments	axial	ΔK <sub>a</sub>	[mm]	0.8	1.1	1.3	1.3	1.2	1.2	1.4	1.6	
	radial	ΔK <sub>r</sub>	[mm]	0.2	0.25	0.3	0.3	0.25	0.25	0.35	0.4	
	angular <sup>5)</sup>	ΔK <sub>w</sub>	[°]	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	
Max. speed			n <sub>max</sub>	[rpm]	13600	10100	8500	8500	6200	6200	5200	4400

Mass moments of inertia and weights <sup>6)</sup>				Size							
				2	3	4	5	6	7	8	9
EAS®-hub-side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	2.05	3.34	10.44	14.93	44.45	66.76	144.52	335.58
EAS®-pressure flange side	Type 4130.50400	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.65	2.02	4.99	6.41	20.91	38.67	65.1	140.52
ROBA®-DS-side	Type 4136.50412	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.13	3.11	9.95	9.95	57.69	57.69	150.12	348.98
	Type 4136.50416	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.09	3.16	9.45	9.45	39.73	39.73	98.83	236.33
	Type 4136.50419	I	[10 <sup>-3</sup> kgm <sup>2</sup> ]	1.62	4.92	13.27	13.27	-	-	-	-
Weight	Type 4136.50412	m	[kg]	4.92	6.97	12.76	15.86	32.83	39.21	64.90	105.78
	Type 4136.50416	m	[kg]	4.69	6.46	11.87	14.97	27.95	34.33	55.54	90.69
	Type 4136.50419	m	[kg]	5.22	7.65	13.58	16.68	-	-	-	-

Dimensions [mm]	Size								
	2	3	4	5	6	7	8	9	
a	Pitch	6 × 60°		6 × 60°		8 × 45°		8 × 45°	
	Dimension	M8	M10	M10	M10	M16	M16	M16	M20
A <sub>1</sub>	35	33	42	49.5	58	58	74	89	
A <sub>2</sub>	20	28	32	32	43	43	51	63	
A <sub>3</sub>	22.5	29	31.5	31.5	-	-	-	-	
b	10	10	11	10	14	14	15	20	
B	28	28	34	32.5	41	41	50	60	
d <sub>2</sub>	53	74	84	84	164	164	198	234	
d <sub>5</sub>	77	100	115	115	-	-	-	-	
D	77	104	123	123	167	167	198	234	
D <sub>2</sub>	77	104	123	123	178	178	210	250	
E	99	99	123	123	155	155	188	234	
f	4	4	5	5	6	6	6	6	
F	90	100	125	135	170	185	205	250	
F <sub>1</sub>	64	77	115	110	141	155	198	234	
k	3.5	3.5	5.3	5.3	5.3	6.4	7.5	7.5	
k <sub>2</sub>	3.5	3.5	4	4	5.3	5.3	6.4	7.5	
l	65	60	70	85	90	110	120	130	
l <sub>1</sub>	35	45	50	50	75	75	95	115	
l <sub>4</sub>	40	50	55	55	-	-	-	-	
l <sub>9</sub>	112	125	160	165	194	204	243.5	289	
l <sub>10</sub>	97	107	140	145	167	177	207.5	245	
l <sub>11</sub>	97	107	140	145	-	-	-	-	
L	130	128	145	165	190	220	250	280	
L <sub>12</sub>	197	212	260	280	332	362	422.5	490	
L <sub>16</sub>	177	185	230	250	284	314	363.5	419	
L <sub>19</sub>	202	217	265	285	-	-	-	-	
T <sub>k</sub>	62	86	103	103	150	150	175	210	
U <sub>2</sub>	15	18	20	20	27	27	36	44	
Z <sup>H7</sup>	45	65	75	75	100	100	120	140	

Bores [mm]			Size							
			2	3	4	5	6	7	8	9
EAS®-side	d <sup>H6 4)</sup>	d <sub>min</sub>	20	25	35	35	42	42	70	70
		d <sub>max</sub>	36	45	65	60	80	80	95	120
ROBA®-DS-side	d <sub>s</sub> <sup>H7 4)</sup>	d <sub>s min</sub>	14	25	30	30	50	50	60	70
		d <sub>s max</sub>	26	45	45	45	85	85	100	120
	d <sub>SG</sub> <sup>H7 4)</sup>	d <sub>SG min</sub>	25	40	45	45	-	-	-	-
		d <sub>SG max</sub>	45	60	70	70	-	-	-	-

We reserve the right to make dimensional and constructional alterations.

- 1) See Technical Data, limit torque for overload M<sub>G</sub>, other torques on request.
- 2) Only possible for Sizes 2 to 5
- 3) Please observe the shaft load in the max. torque range.
- 4) Frictionally-locking transmittable torque, see page 14.
- 5) The values refer to 1 disk pack.
- 6) Mass moments of inertia and weights are valid for maximum bore.

For further Technical Data, please see the Installation and Operational Instructions B.413.1 and B.413.2. They are available for download on our website [www.mayr.com](http://www.mayr.com).

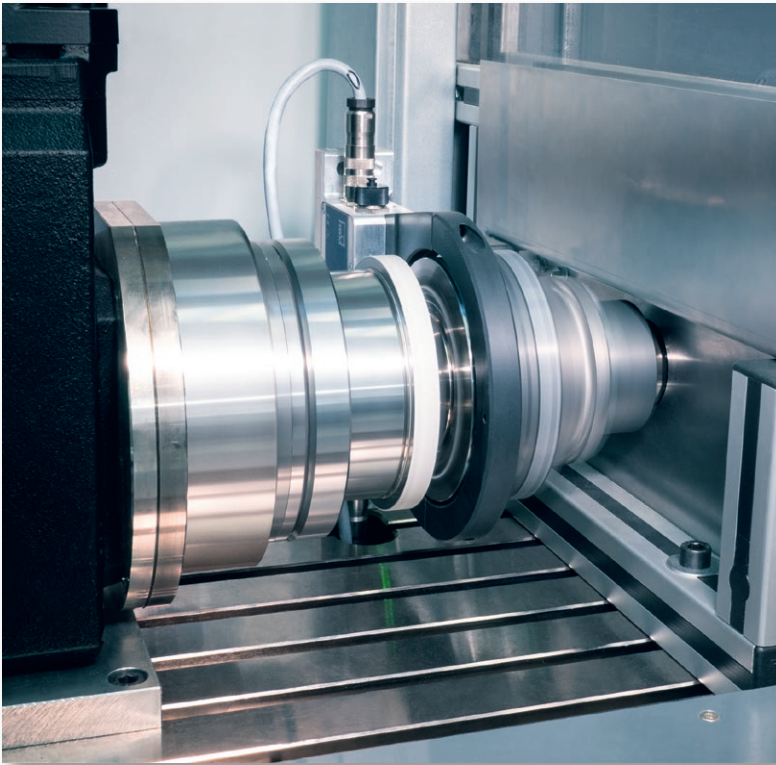


# Frictionally-locking Transmittable Torques [Nm]

	Size										Size								
	EAS®-HSE	2	3	4	5	6	7	8	9		EAS®-HSE	2	3	4	5	6	7	8	9
	ROBA®-DS	16	40	64	64	300	300	500	850		ROBA®-DS	16F	16	64	64	300	300	500	850
	<b>Bore</b>										<b>Bore</b>								
Ø14	$d_s$	158	-	-	-	-	-	-	-	-									
	$d_{sg}$	186	-	-	-	-	-	-	-		Ø20	$d$	283	-	-	-	-	-	-
Ø16	$d_s$	240	-	-	-	-	-	-	-	Ø20		$d_1$	-	-	-	-	-	-	-
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø22	$d$	320	-	-	-	-	-	-
Ø20	$d_s$	269	-	-	-	-	-	-	-	Ø22		$d_1$	-	-	-	-	-	-	-
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø25	$d$	375	339	-	-	-	-	-
Ø22	$d_s$	312	429	-	-	-	-	-	-	Ø25		$d_1$	320	320	-	-	-	-	-
	$d_{sg}$	339	-	-	-	-	-	-	-		Ø28	$d$	428	404	-	-	-	-	-
Ø25	$d_s$	-	495	-	-	-	-	-	-	Ø28		$d_1$	368	368	-	-	-	-	-
	$d_{sg}$	404	-	-	-	-	-	-	-		Ø30	$d$	468	448	-	-	-	-	-
Ø28	$d_s$	-	546	704	704	-	-	-	-	Ø30		$d_1$	403	403	-	-	-	-	-
	$d_{sg}$	448	-	-	-	-	-	-	-		Ø32	$d$	509	492	-	-	-	-	-
Ø30	$d_s$	-	600	769	769	-	-	-	-	Ø32		$d_1$	442	442	-	-	-	-	-
	$d_{sg}$	492	-	-	-	-	-	-	-		Ø35	$d$	568	558	865	1291	-	-	-
Ø32	$d_s$	-	669	863	863	-	-	-	-	Ø35		$d_1$	506	506	-	-	-	-	-
	$d_{sg}$	558	-	-	-	-	-	-	-		Ø38	$d$	-	620	1024	1432	-	-	-
Ø35	$d_s$	-	741	960	960	-	-	-	-	Ø38		$d_1$	579	579	-	-	-	-	-
	$d_{sg}$	620	-	-	-	-	-	-	-		Ø40	$d$	-	659	1138	1533	-	-	-
Ø38	$d_s$	-	796	1031	1031	-	-	-	-	Ø40		$d_1$	632	632	-	-	-	-	-
	$d_{sg}$	659	873	-	-	-	-	-	-		Ø42	$d$	-	694	1258	1642	2234	2938	-
Ø40	$d_s$	-	852	1104	1104	-	-	-	-	Ø42		$d_1$	689	689	-	-	-	-	-
	$d_{sg}$	694	937	-	-	-	-	-	-		Ø45	$d$	-	738	1451	1817	2453	3179	-
Ø42	$d_s$	-	932	1206	1206	-	-	-	-	Ø45		$d_1$	782	782	1935	1935	-	-	-
	$d_{sg}$	738	1036	1268	1268	-	-	-	-		Ø48	$d$	-	-	1660	2010	2650	3437	-
Ø45	$d_s$	-	-	-	-	-	-	-	-	Ø48		$d_1$	-	-	2118	2118	-	-	-
	$d_{sg}$	-	1132	1394	1394	-	-	-	-		Ø50	$d$	-	-	1807	2148	2794	3621	-
Ø48	$d_s$	-	-	-	-	3569	3569	-	-	Ø50		$d_1$	-	-	2241	2241	3101	3101	-
	$d_{sg}$	-	1195	1480	1480	-	-	-	-		Ø52	$d$	-	-	1962	2295	2930	3834	-
Ø50	$d_s$	-	-	-	-	-	-	-	-	Ø52		$d_1$	-	-	2381	2381	3249	3249	-
	$d_{sg}$	-	1255	1565	1565	-	-	-	-		Ø55	$d$	-	-	2207	2530	3150	4119	-
Ø52	$d_s$	-	-	-	-	4024	4024	-	-	Ø55		$d_1$	-	-	2591	2591	3472	3472	-
	$d_{sg}$	-	1338	1691	1691	-	-	-	-		Ø60	$d$	-	-	2653	2967	3488	4680	-
Ø55	$d_s$	-	-	-	-	4500	4500	5970	-	Ø60		$d_1$	-	-	2988	2988	3883	3883	4679
	$d_{sg}$	-	1454	1890	1890	-	-	-	-		Ø65	$d$	-	-	3148	-	3835	5309	-
Ø60	$d_s$	-	-	-	-	5177	5177	6629	-	Ø65		$d_1$	-	-	3436	3436	4340	4340	5136
	$d_{sg}$	-	-	2065	2065	-	-	-	-		Ø68	$d$	-	-	-	-	-	-	-
Ø65	$d_s$	-	-	-	-	5658	5658	7108	-	Ø68		$d_1$	-	-	3730	3730	4637	4637	5430
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø70	$d$	-	-	-	-	4255	6011	7501
Ø68	$d_s$	-	-	-	-	6334	6334	7500	10723	Ø70		$d_1$	-	-	3938	3938	4845	4845	5635
	$d_{sg}$	-	-	2204	2204	-	-	-	-		Ø75	$d$	-	-	-	-	4627	6790	8329
Ø70	$d_s$	-	-	-	-	7348	7348	8156	11719	Ø75		$d_1$	-	-	-	-	5402	5402	6177
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø80	$d$	-	-	-	-	5214	7650	9238
Ø75	$d_s$	-	-	-	-	8453	8453	8830	12750	Ø80		$d_1$	-	-	-	-	6016	6016	6768
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø85	$d$	-	-	-	-	-	-	10231
Ø80	$d_s$	-	-	-	-	9652	9652	9523	13750	Ø85		$d_1$	-	-	-	-	6687	6687	7411
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø90	$d$	-	-	-	-	-	-	11314
Ø85	$d_s$	-	-	-	-	-	-	10234	14777	Ø90		$d_1$	-	-	-	-	-	-	8107
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø95	$d$	-	-	-	-	-	-	12490
Ø90	$d_s$	-	-	-	-	-	-	10888	15721	Ø95		$d_1$	-	-	-	-	-	-	8890
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø100	$d$	-	-	-	-	-	-	-
Ø95	$d_s$	-	-	-	-	-	-	11542	16665	Ø100		$d_1$	-	-	-	-	-	-	9674
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø110	$d$	-	-	-	-	-	-	-
Ø100	$d_s$	-	-	-	-	-	-	-	18607	Ø110		$d_1$	-	-	-	-	-	-	-
	$d_{sg}$	-	-	-	-	-	-	-	-		Ø120	$d$	-	-	-	-	-	-	-
Ø110	$d_s$	-	-	-	-	-	-	-	20603	Ø120		$d_1$	-	-	-	-	-	-	-
	$d_{sg}$	-	-	-	-	-	-	-	-										



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